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Amendments To The Claims:

Please amend the claims as shown.

1 - 13 (canceled)

14. (new) A protective layer for protecting a component against corrosion and oxidation at high temperatures, comprising:

0.5 to 2% rhenium (% by weight);

15 to 21% chromium (% by weight);

24 to 26% cobalt (% by weight);

9 to 11.5% aluminum (% by weight);

0.05 to 0.7% yttrium (% by weight) or a metal selected from the group consisting of: scandium and the rare earth elements;

0.0 to 1% ruthenium (% by weight); and

remainder nickel and manufacturing related impurities.

15. (new) The protective layer as claimed in claim 14, comprising:

1 to 1.8% rhenium (% by weight);

16 to 18% chromium (% by weight);

9.5 to 11% aluminum (% by weight); and

0.3 to 0.5% yttrium (% by weight) or a metal selected from the group consisting of: scandium and the rare earth elements.

16. (new) The protective layer as claimed in claim 15, comprising:

1.5% rhenium (% by weight);

17% chromium (% by weight);

25% cobalt (% by weight);

10% aluminum (% by weight); and

0.4% yttrium (% by weight) or a metal selected from the group consisting of scandium and the rare earth elements.

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- 17. (new) The protective layer as claimed in claim 16, wherein the layer contains at most 6% by volume of chromium-rhenium precipitates.
- 18. (new) The protective layer as claimed in claim 17, wherein a thermal barrier coating is applied to the protective layer.
 - 19. (new) A high temperature gas turbine engine component, comprising: a nickel or cobalt based super alloy substrate; and a corrosion and oxidation protection layer arranged on the substrate, comprising:

0.5 to 2% rhenium (% by weight),

15 to 21% chromium (% by weight),

24 to 26% cobalt (% by weight),

9 to 11.5% aluminum (% by weight),

0.05 to 0.7% yttrium (% by weight) or a metal selected from the group consisting of: scandium and the rare earth elements;

0.0 to 1% ruthenium (% by weight), and remainder nickel and manufacturing related impurities.

20. (new) The high temperature turbine component as claimed in claim 19, wherein the protective layer comprises:

1 to 1.8% rhenium (% by weight);

16 to 18% chromium (% by weight);

9.5 to 11% aluminum (% by weight); and

0.3 to 0.5% yttrium (% by weight) or a metal selected from the group consisting of: scandium and the rare earth elements.

21. (new) The high temperature turbine component as claimed in claim 20, wherein the protective layer comprises:

1.5% rhenium (% by weight);

17% chromium (% by weight);

25% cobalt (% by weight);

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10% aluminum (% by weight); and

0.4% yttrium (% by weight) or a metal selected from the group consisting of scandium and the rare earth elements.

- 22. (new) The high temperature turbine component as claimed in claim 21, wherein the protective layer contains at most 6% by volume of chromium-rhenium precipitates.
- 23. (new) The high temperature turbine component as claimed in claim 22, wherein a thermal barrier coating is applied to the protective layer.
- 24. (new) A process for producing a high temperature corrosion and oxidation protection layer, comprising:

providing a powder comprising:

0.5 to 2% rhenium (% by weight),

15 to 21% chromium (% by weight),

24 to 26% cobalt (% by weight),

9 to 11.5% aluminum (% by weight),

0.05 to 0.7% yttrium (% by weight) and/or an at least one equivalent metal selected from the group consisting of: scandium and the rare earth elements,

0.0 to 1% ruthenium (% by weight); and

remainder nickel wherein the powder used has a trace element content of less than 0.5%, comprising, carbon, oxygen, nitrogen and hydrogen:

in that the carbon content is less than 250 ppm,

in that the oxygen content is less than 400 ppm,

in that the nitrogen content is less than 100 ppm, and

in that the hydrogen content is less than 50 ppm;

spraying the powder;

vaporizing the powder; and

depositing the vaporized powder onto a substrate.

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- 25. (new) The process as claimed in claim 24, wherein the substrate is a nickel or cobalt based superalloy.
 - 26. (new) The process as claimed in claim 25, wherein the powder comprises:

1 to 1.8% rhenium (% by weight);

16 to 18% chromium (% by weight);

9.5 to 11% aluminum (% by weight); and

0.3 to 0.5% yttrium (% by weight) or a metal selected from the group consisting of: scandium and the rare earth elements.

27. (new) The process as claimed in claim 26, wherein the powder comprises:

1.5% rhenium (% by weight);

17% chromium (% by weight);

25% cobalt (% by weight);

10% aluminum (% by weight); and

0.4% yttrium (% by weight) or a metal selected from the group consisting of scandium and the rare earth elements.